

# Public Portal

EDRN Information System Architecture



Sean Kelly



# Overview

What it is

How it works

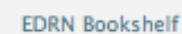
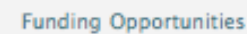
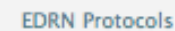
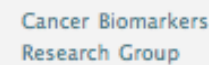
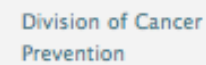
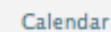
Current issues

Future directions

Summary



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**Announcement 04/05/2007**

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 [Notice Number: NOT-CA-07-003](#)

(Posted 2007-04-04)

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## Scientific Components

[For Public, Patients, and Advocates](#)

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<http://edrn.nci.nih.gov/>  
<http://cancer.gov/edrn/>



EDRN members  
partners  
prospective members



general public  
cancer sufferers  
patient advocates



## About EDRN



Greetings!

In the 19th century, pathologists used the newly invented microscope to investigate the nature of cancer as well as other diseases. Along with improvements in tissue processing, the microscope took pathologists from gross anatomy to microscopic analysis, which eventually led to a new pathology. This new pathology culminated in Virchow's concept that the fundamental changes in disease can be attributed to alterations in the cells of the body. The application of molecular technologies with minimally intrusive surgical techniques has laid the foundation for a revolutionary leap in the science of screening, early diagnosis and target-based therapy for cancer. Fueled by the discovery of cancer-specific biomarkers, and

aided by pathological improvements, molecular-based tests are in the not-too-distant future to perform noninvasive diagnosis on patients. The NCI's Early Detection Research Network (EDRN) is committed to make molecular diagnostics a reality that will allow physicians to provide individualized treatment to cancer patients. The EDRN is committed to provide up-to-date information on biomarker research through this Website and scientific publications.

Sudhir Srivastava  
Chief, Cancer Biomarkers Research Group  
Chief, Cancer Biomarkers Research Group  
Sudhir Srivastava

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## Objectives



The intents of the Early Detection Research Network.

The objectives of EDNR include:

- Development and testing of promising biomarkers or technologies for early detection of cancer
- Evaluation of promising, analytically proven biomarkers or technologies
- Collaboration among academic and industrial leaders in molecular biology, molecular genetics, clinical oncology, computer science, public health and clinical application for early cancer detection
- Collaboration and rapid dissemination of information among awardees

- Collaboration and rapid dissemination of information among awardees

detection

clinical oncology, computer science, public health and clinical application for early cancer

collaboration and rapid dissemination of information among awardees



Core Funds Associate Member(A)

▼ Site ID

262	<a href="#">Beer, David, Ph.D.</a>	University of Michigan Medical School
199	<a href="#">Fedarko, Neal S., Ph.D.</a>	Johns Hopkins School of Medicine
311	<a href="#">Gaston, Sandra M., Ph.D.</a>	Beth Israel Deaconess Medical Center
261	<a href="#">Gite, Sadanand, Ph.D.</a>	Ambergen, Inc.
225	<a href="#">Goldman, Radoslav, Ph.D.</a>	Lombardi Comprehensive Cancer Center
260	<a href="#">Lubman, David, Ph.D.</a>	University of Michigan Medical School
266	<a href="#">Mor, Gil, M.D., Ph.D.</a>	Yale University
312	<a href="#">Weiss, Robert Henry, M.D., M.S.</a>	University of California, Davis
331	<a href="#">Zeng, Gang, Ph.D.</a>	University of California, Los Angeles

Core Funds Associate Member(B)

▼ Site ID

127	<a href="#">Adam, Bao-Ling, Ph.D.</a>	Medical College of Georgia
298	<a href="#">Barkin, Jack, M.D.</a>	The Male Health Centre
124	<a href="#">Basler, Joseph W., M.D., Ph.D.</a>	University of Texas Health Science Center San Antonio
146	<a href="#">Befeler, Alex, M.D.</a>	Saint Louis University
228	<a href="#">Bordot, Xitbok M.D.</a>	UMDNJ-New Jersey
146	<a href="#">Befeler, Alex, M.D.</a>	Saint Louis University
124	<a href="#">Basler, Joseph W., M.D., Ph.D.</a>	University of Texas Health Science Center San Antonio
298	<a href="#">Barkin, Jack, M.D.</a>	The Male Health Centre
127	<a href="#">Adam, Bao-Ling, Ph.D.</a>	Medical College of Georgia



## EDRN Publications

15 items are listed for National Institute of Standards and Technology (Assoc. Member) (publication type: all)

### Manuscripts/Published:

#### Journal:

Atha DH, Miller K, Sanow AD, Xu J, Hess JL, Wu OC, Wang W, Srivastava S, Highsmith WE. High-throughput TRAP/PCR analysis of telomerase using capillary electrophoresis. (Abstract) American Journal of Human Genetics 2002; 71(2): 230.

Barker PE. Cell and DNA standards for medical genetics laboratories. Journal of the Association of Genetic Technologists 2002; 28(2): 47-49.

Barker PE, Atha DH, Hocker D, Markowitz M, Srivastava S, Wang W, O'Connell, CD. NIST-NCI biomarker validation laboratory: NIST Collaborates with Cancer Biomarkers Group. (Abstract) Biomaterials 2001; 24(3): 16.

Barker PE, Hocker D, Pinsky P, Wang W, Srivastava S, Wu X, Spitz M. Estimates of consensus in cell selection and scoring of FISH data. (Abstract) American Journal of Human Genetics 2002; 71(2): 222.

Barker PE, Watson MS, Ticehurst JR, Colbert JC, O'Connell CD. NIST physical standards for DNA-based medical testing. Journal of Clinical Laboratory Analysis 2001; 16: 5-10.

Srinivas P, Barker PE, Srivastava S. Nanotechnology in Early Cancer Detection. (NIST Workshop Report). Laboratory Investigation 2002; 82(5): 657-662.

#### Presentation:

Atha DH, Miller K, Xu J, Zerit H, Wu OC, Sanow AD, Wang W, Srinivasan S, Highsmith WE . High-Throughput Analysis of Telomerase by Capillary Electrophoresis.. 12th Annual Frederick Conference on Capillary Electrophoresis, 2001 October 15, Frederick, MD.

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Atha DH, Miller K, Xu J, Zerit H, Wu OC, Sanow AD, Wang W, Srinivasan S, Highsmith WE . High-Throughput Analysis of Telomerase by Presentation:

82(5): 657-662.

Srinivas P, Barker PE, Srivastava S. Nanotechnology in Early Cancer Detection. (NIST Workshop Report). Laboratory Investigation 2002;



## EDRN Protocols

Please select a protocol name to get its information in detail.

Site Selected: All

Protocol Name	Protocol Document	Protocol ID
<a href="#">Androgenic Activity and the Association with Ovarian Cancer</a>		Unregistered
<a href="#">Assessment of Clinical Potential of Digital SNP Analysis</a>		Unregistered
<a href="#">Barrett's Esophagus Methylation Profiles</a>		Unregistered
<a href="#">Biomarker Dev Lab At Moffitt Supplement</a>		Unregistered
<a href="#">Biomarker Development Laboratory</a>		95
<a href="#">Biomarkers in Familial Multiple Myeloma</a>		139
<a href="#">Body Fluids as a Source of Diagnostic Biomarkers</a>		76
<a href="#">Body Fluids as a Source of Diagnostic Biomarkers: Breast</a>		68
<a href="#">Body Fluids as a Source of Diagnostic Biomarkers: Prostate</a>		67
<a href="#">Breast Ductal Lavage Fluid Specimen Bank</a>		Unregistered
<a href="#">Breast tissue array</a>		71
<a href="#">Clinical Validation of Molecular Signatures of Cervical Neoplasia</a>		Unregistered
<a href="#">CLUE Studies: Evaluating Biomarkers of Carcinogenesis</a>		59
<a href="#">Collaborative study on SELDI biomarker discovery and serum protein profiling of lung cancers</a>		Unregistered
<a href="#">DCP Validation Study</a>	<a href="#">DCP Protocol version 1.6 (clean)</a>	Unregistered
<a href="#">Detecting breast cancer protein signatures in body fluid</a>		Unregistered
<a href="#">Detecting Breast Cancer Signatures in Body Fluids</a>		73
<a href="#">Detection of Bladder CA by Microsatellite Analysis (MSA)</a>	<a href="#">MSA Protocol version 1.6 (clean)</a>	108
<a href="#">Detection of Bladder CA by Microsatellite Analysis (MSA)</a>	<a href="#">MSA Protocol version 1.6 (clean)</a>	108
<a href="#">Detecting Breast Cancer Signatures in Body Fluids</a>		73
<a href="#">Detecting breast cancer protein signatures in body fluid</a>		Unregistered
<a href="#">DCP Validation Study</a>	<a href="#">DCP Protocol version 1.6 (clean)</a>	Unregistered
<a href="#">Body Fluids as a Source of Diagnostic Biomarkers</a>		76



# Notices



Funding opportunities through Notices.

## Current Notices

**Title:** [🌐 Announcement of the NCI Early Detection Research Network \(EDRN\) Program for Rapid, Independent Diagnostic Evaluation \(PRIDE\) for Cancer Biomarkers](#)

**Notice Number:** NOT-CA-07-003

**Release Date:** October 20, 2006

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**Notice Number:** NOT-CA-07-003

[FOR CANCER BIOMARKERS](#)



## Resources



Informatics, procedural, and other resources for EDRN members.

- [EDRN Informatics](#) (QuickTime video)
- [Find EDRN Protocols](#)
- [Common data elements](#)
- [Data Element Search](#)
- [Specimen Reference Sets](#)
- [Standard Operating Procedures](#)

- [Assays](#)
- [Biological Specimens](#)

-  [EDRN Resource Network Exchange](#)

Real-time search for specimens across participating EDRN member sites. Login required.

- [ERNE Summary Inventory](#)
-  [Search for Biological Specimens](#)

Enables you to search for specimens within the EDRN by organ site, specimen type, and principal investigator. Login required.

- [Biomarkers Knowledge Environment](#) (Large PDF)

- [Biomarkers Reference Laboratories](#)

The Biomarkers Reference Laboratories provide validation and other assistance with biomarkers research.

research

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- [Biomarkers Reference Laboratories](#)
- [Biomarkers Knowledge Environment](#) (Large PDF)



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Home

About EDRN

EDRN Investigators

Committees

Organ Groups

Resources

Publications

You are here: Home

Calendar

DCP

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> [Scientific Components](#)

> [Collaborative Opportunities](#)

> [For Public, Patients, and Advocates](#)

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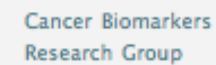
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> For Researcher1z

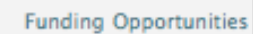
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[Collaborative Opportunities](#)

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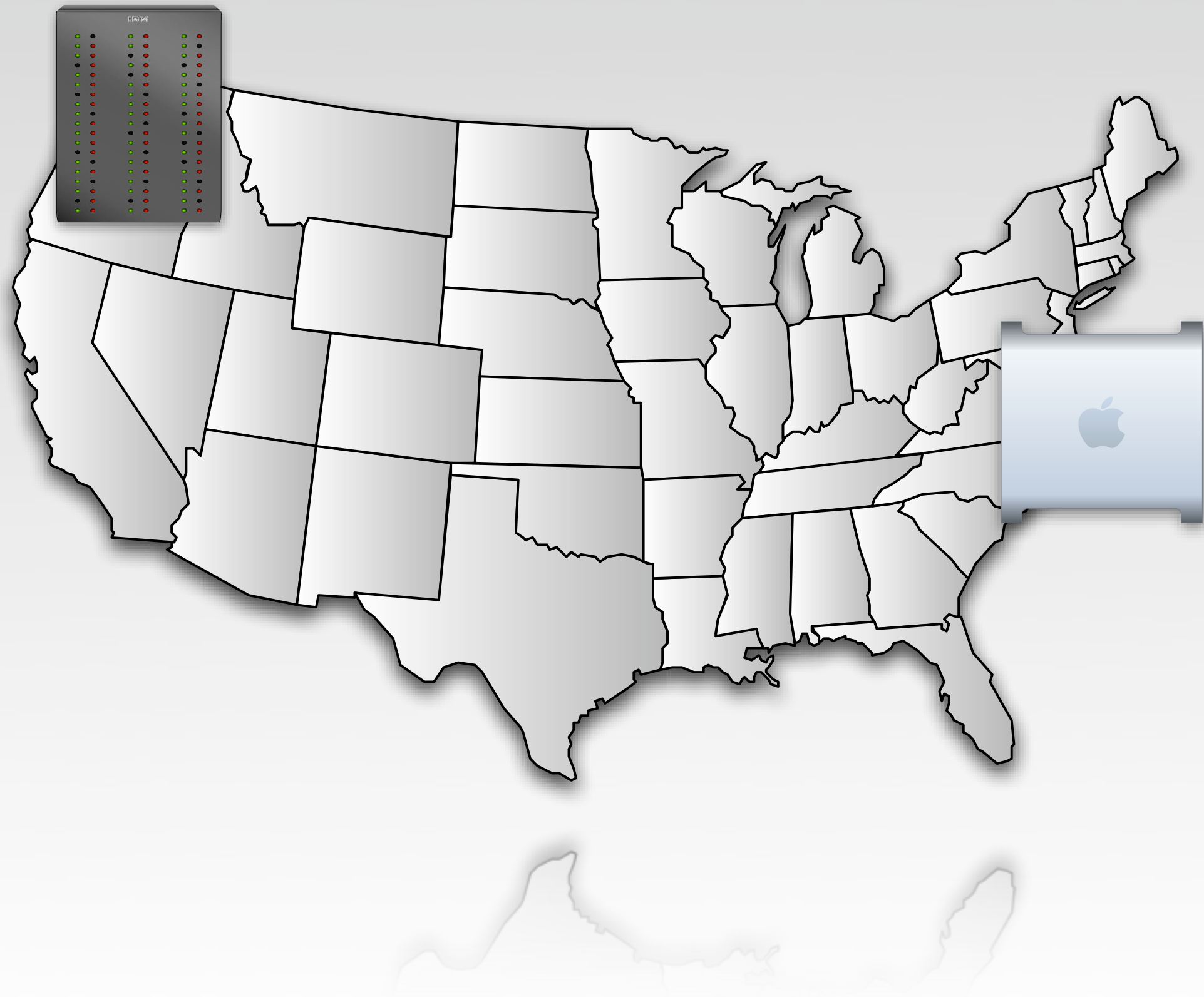


architecture





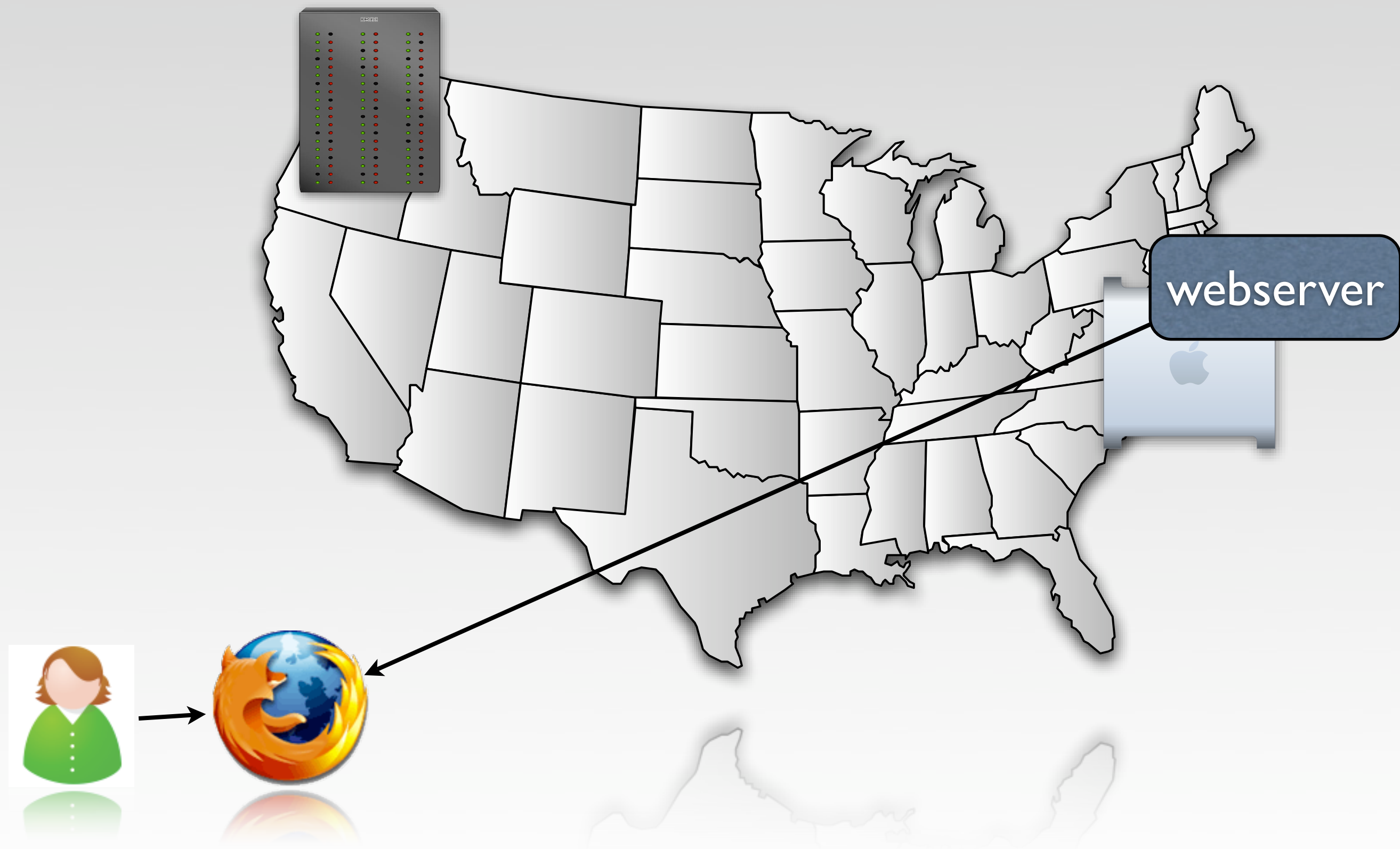




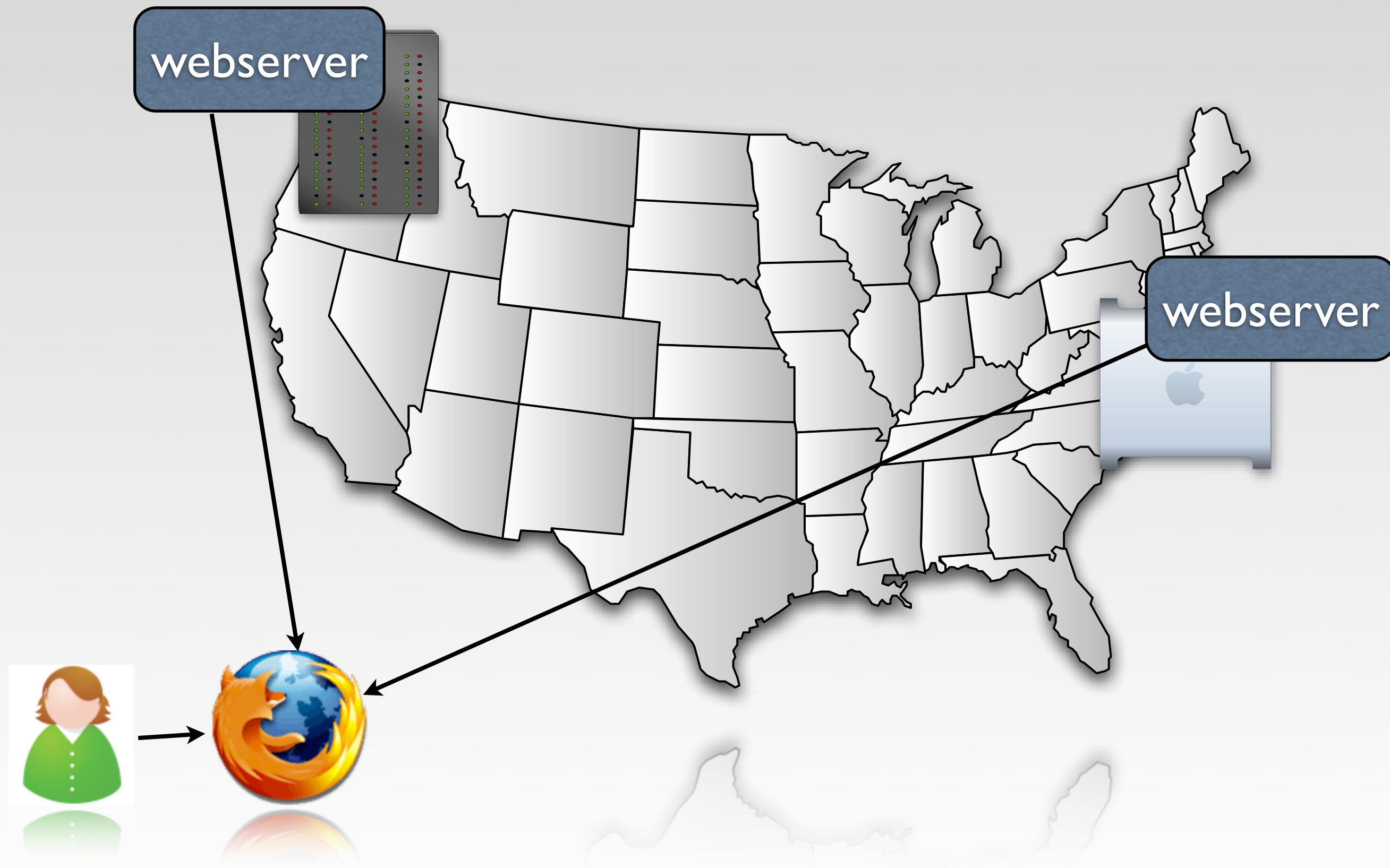




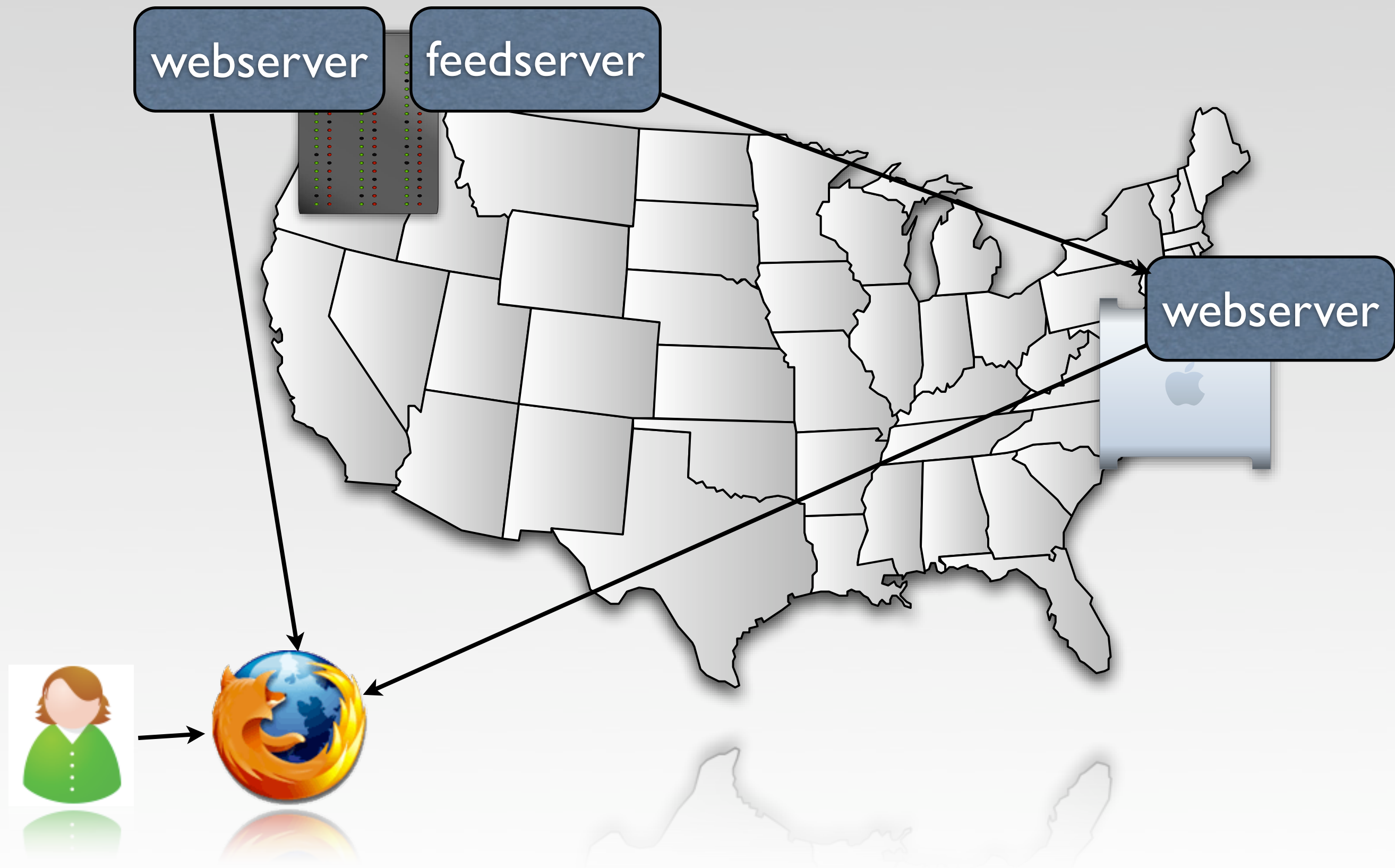








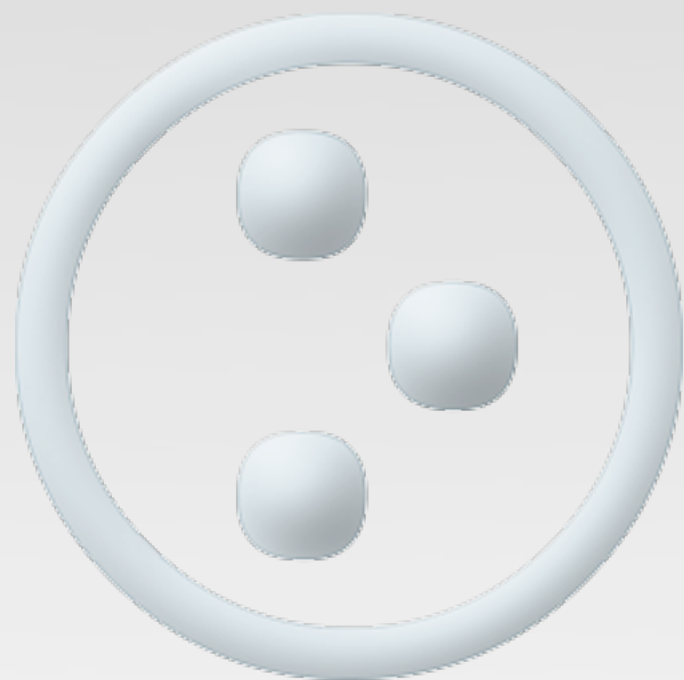






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Pioneer  
Pioneer



“batteries included”

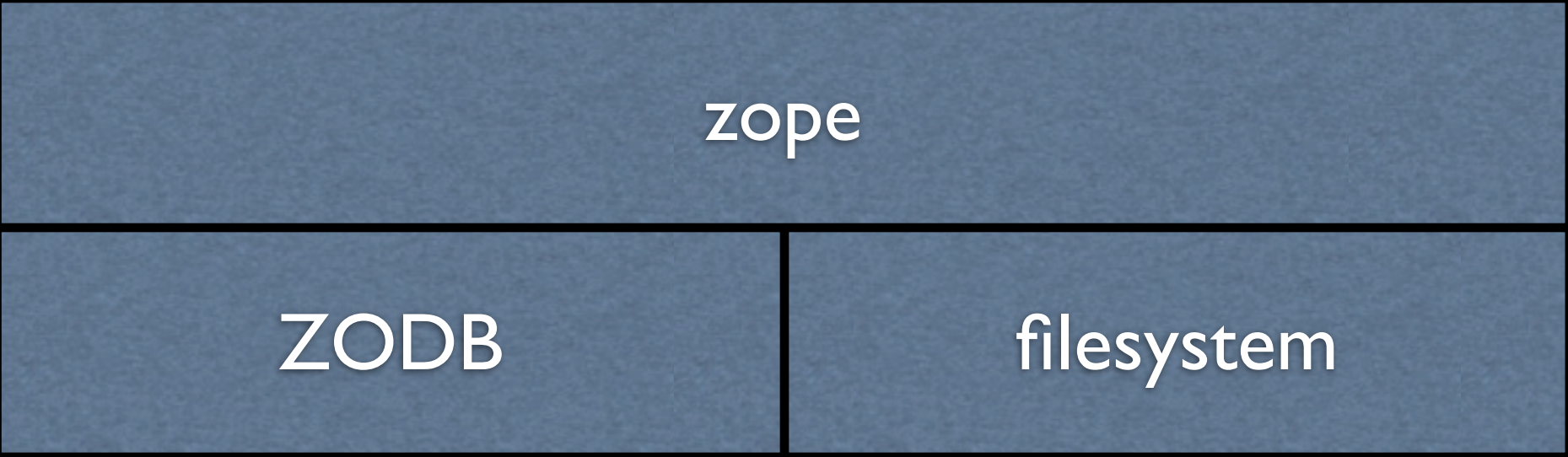


only serious open source  
contender

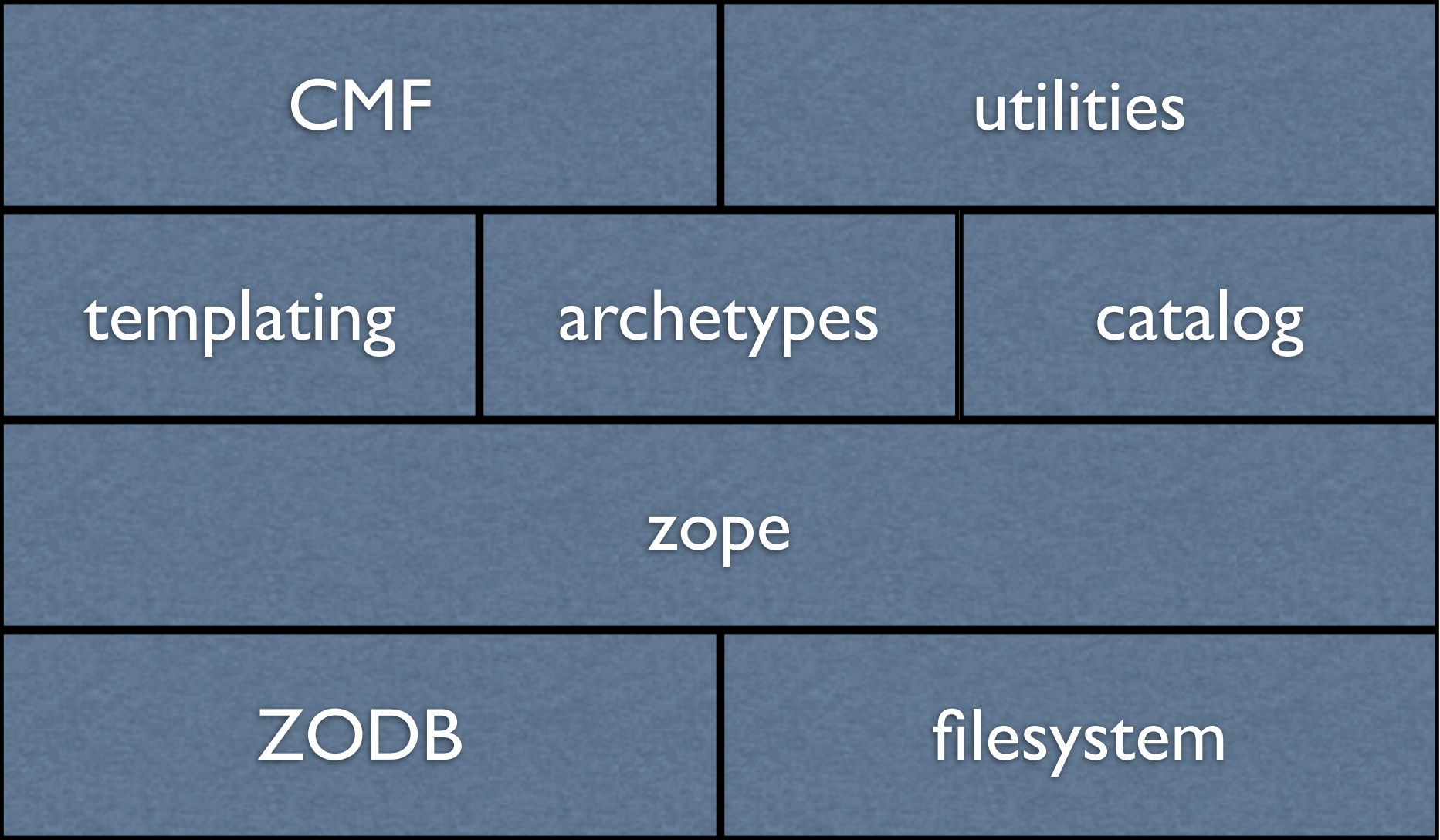




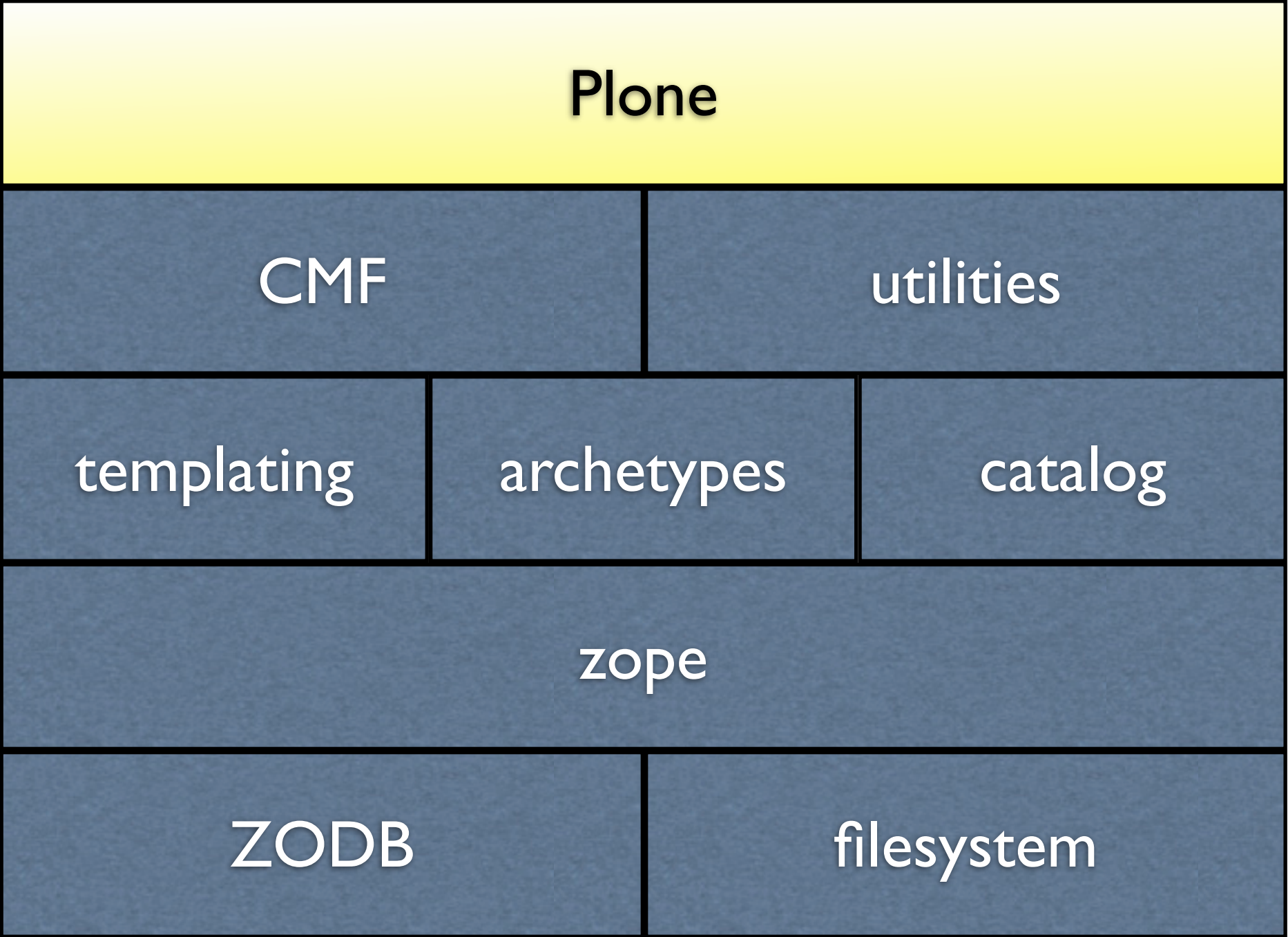












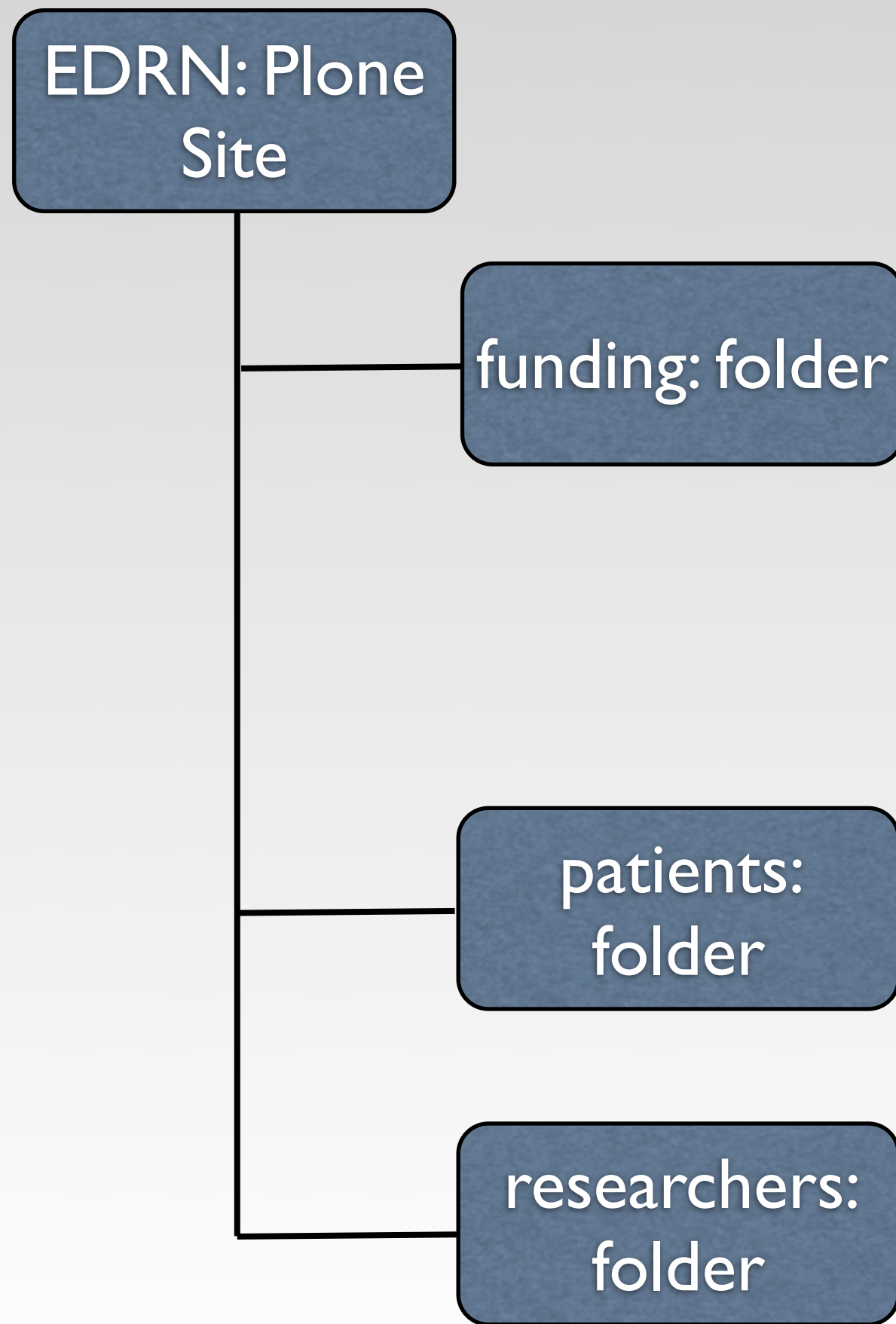


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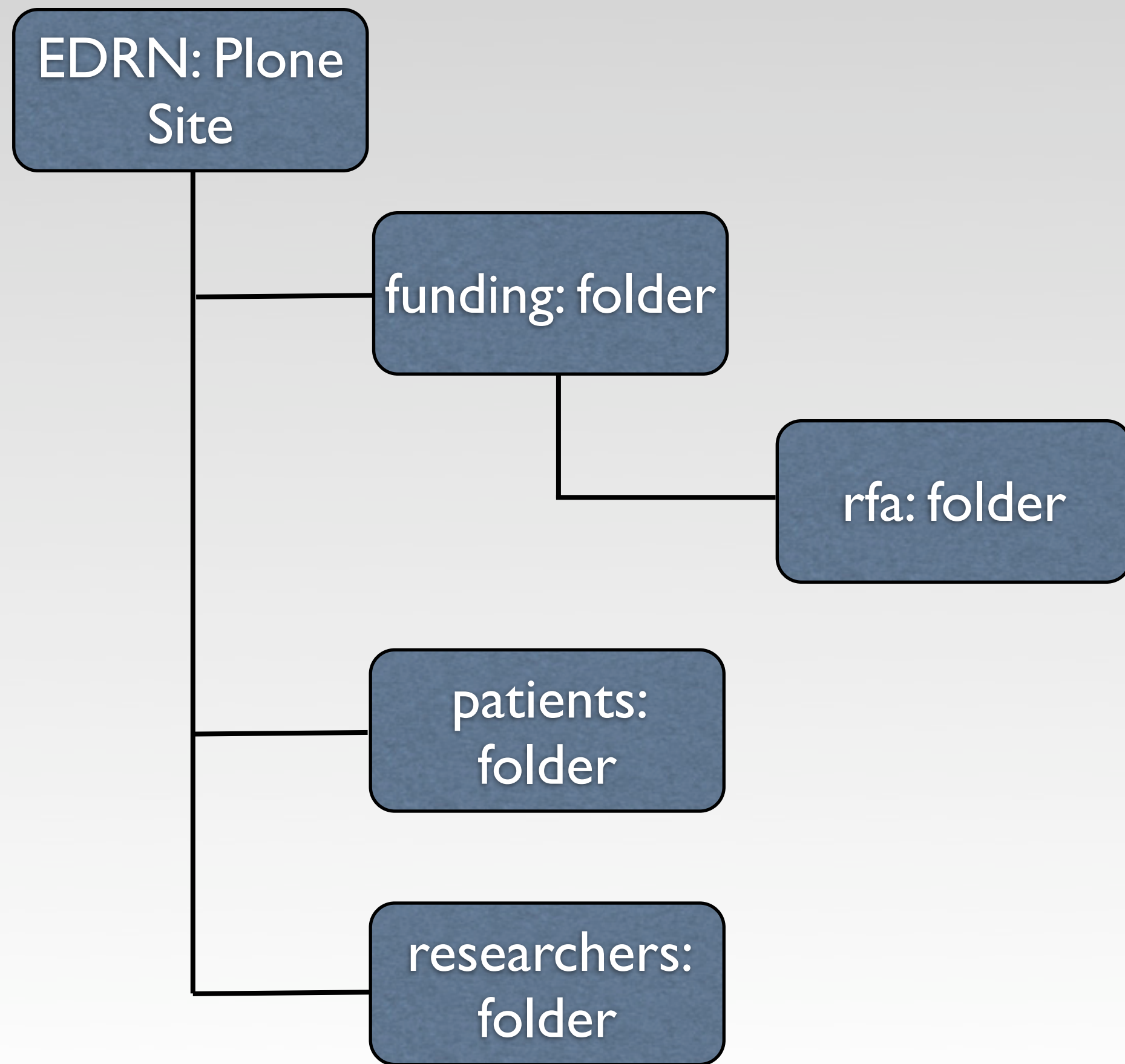


EDRN: Plone  
Site

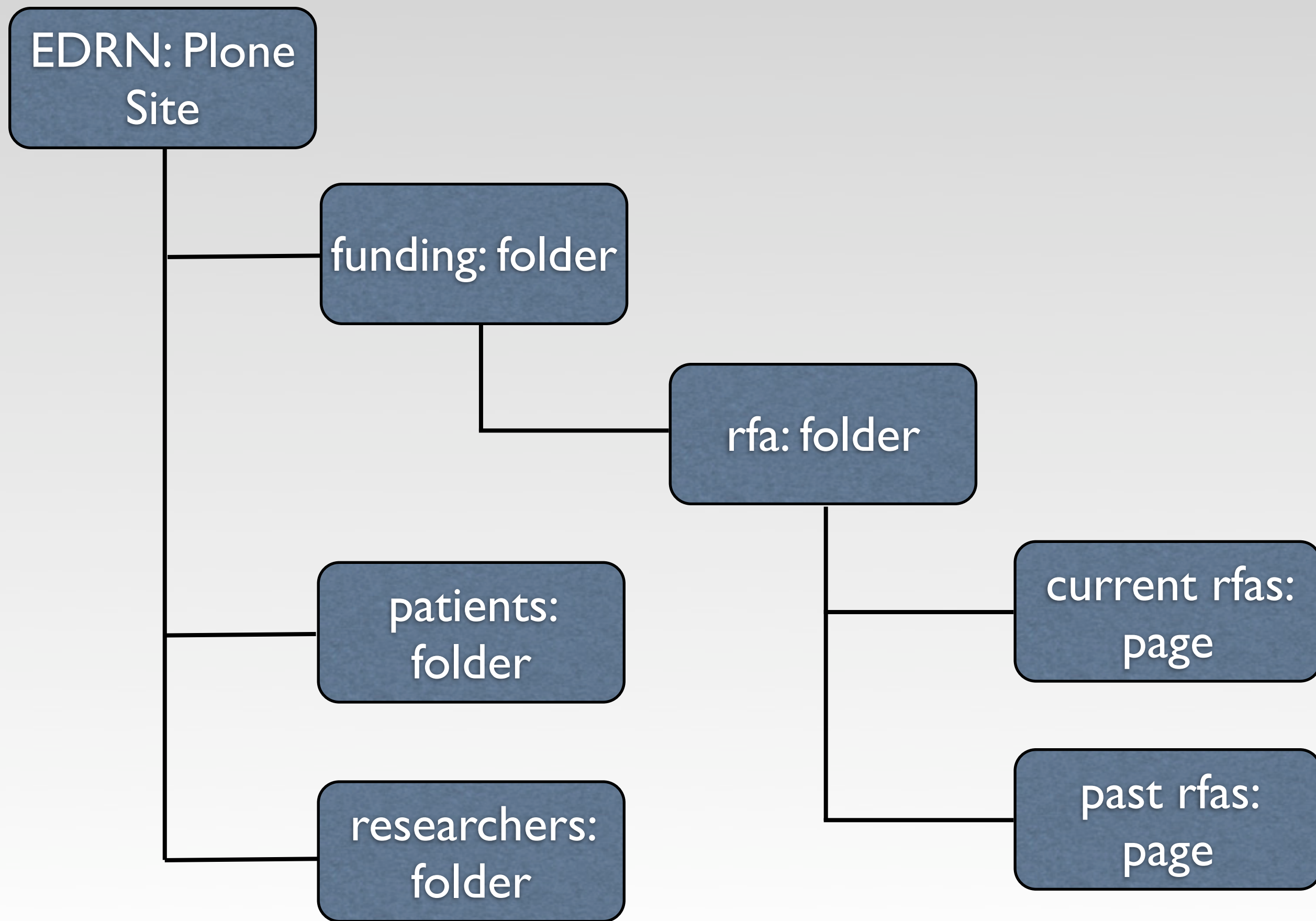














objects can be  
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invoked  
stored  
retrieved



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ICP

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# with robust security

vulnerabilities since July 2005:

PHP ↑ 80%

Mambo ↑ 194%

Drupal ↑ 150%

Joomla ↑ 270%

Perl ↑ 8%

Zope ↑ 6%

Plone = 0%



DMCC pages



# frame trick

page contains two frames



# top frame

page generated by DMCC  
set to 99% height



# bottom frame

set to “about:blank”  
1% height




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Home

About EDNRN

EDRN Investigators

Committees

Organ Groups

Resources

Publications

You are here: Home → Committees

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- [Steering Committee \(SC\)](#)
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Voting members of the Subcommittees are the members of the SC, that is the Principal Investigators in the EDNRN. Co-investigators, Associate Members, and other interested parties, however, are welcome to attend Subcommittee meetings as consultants. The Chair of the SC appoints members to the Subcommittees, although SC members can express their preference as to which Subcommittee they



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Home About EDRN EDRN Investigators Committees Organ Groups Resources Publications

You are here: Home → Committees

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Home About EDRN EDRN Investigators Committees Organ Groups Resources Publications

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Home About EDRN EDRN Investigators Committees Organ Groups Resources Publications

You are here: Home → Committees

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Early Detection Research Network

Home

About EDRN

EDRN Investigators

Committees

Organ Groups

Resources

Publications

You are here: Home

04

Calendar

DCP

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Funding Opportunities



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Early Detection Research Network

Home

About EDRN

EDRN Investigators

Committees

Organ Groups

Resources

Publications

You are here: Home

04

Calendar

DCP

Division of Cancer Prevention

CBRG

Cancer Biomarkers Research Group



EDRN Protocols



Funding Opportunities



EDRN Bookshelf



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[Home](#) [About EDRN](#) [EDRN Investigators](#) [Committees](#) [Organ Groups](#) [Resources](#) [Publications](#)

You are here: Home

 Calendar

 Division of Cancer Prevention

 Cancer Biomarkers Research Group

 EDRN Protocols

 Funding Opportunities

 EDRN Bookshelf

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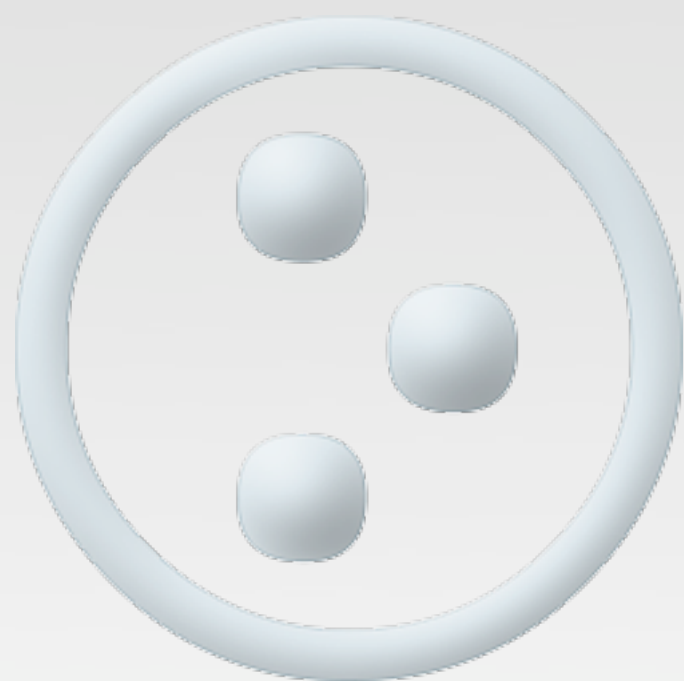


issues



slow











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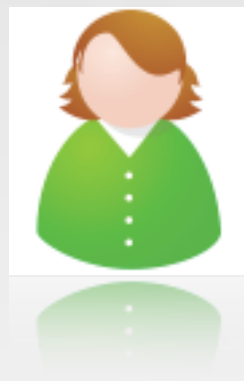


OK for development

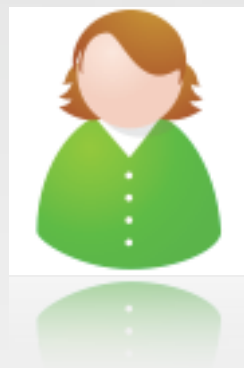


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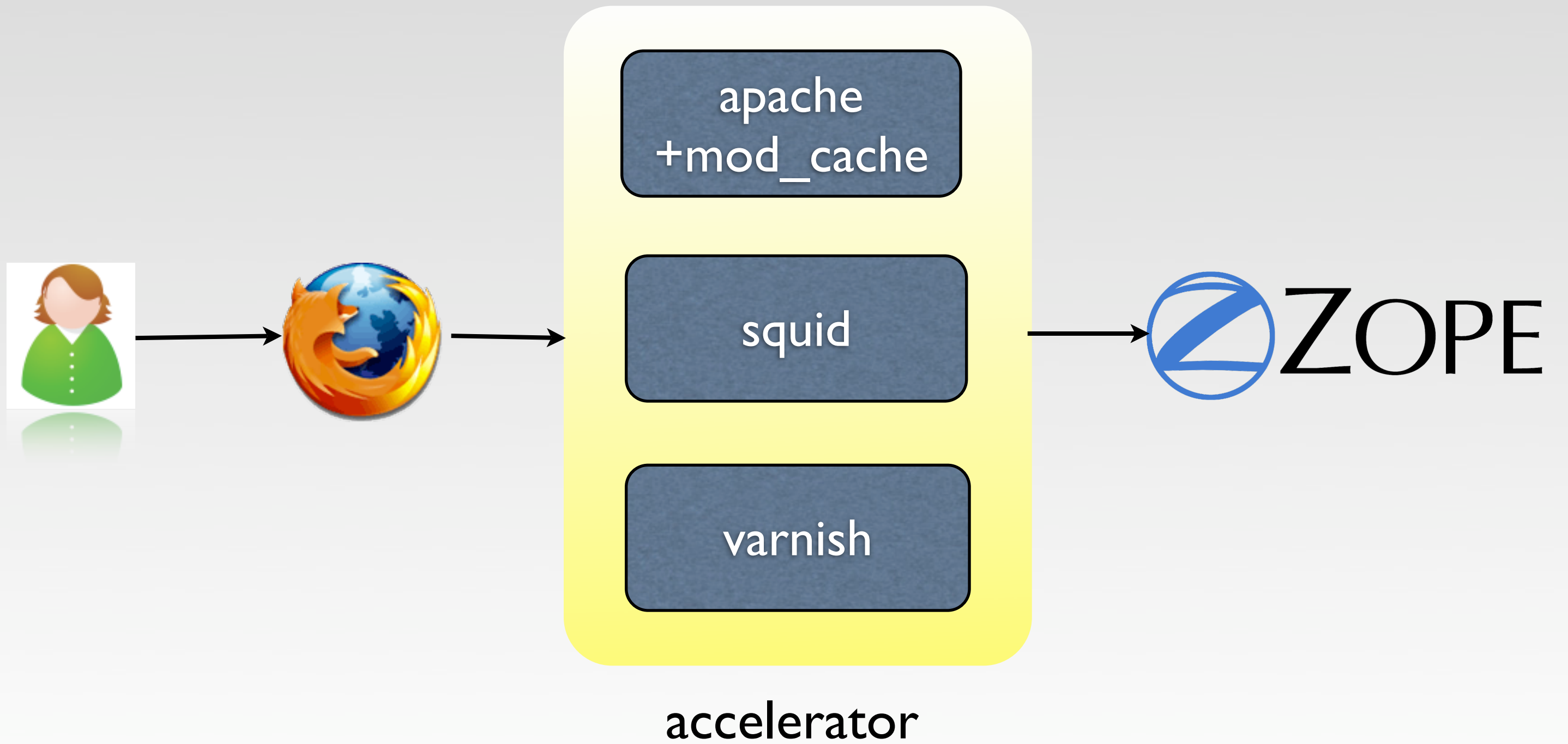




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## ➤ Types of Cancer

## Common Cancer Types

## Bladder Cancer

## Breast Cancer

## Colon and Rectal Cancer

## Endometrial Cancer

### Kidney (Renal Cell) Cancer

## Pancreatic Cancer

## Prostate Cancer

### Skin Cancer (Non-melanoma)

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### All Cancer Types

## A to Z List of Cancers



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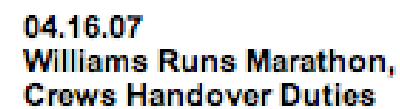
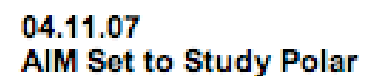
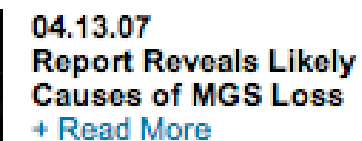
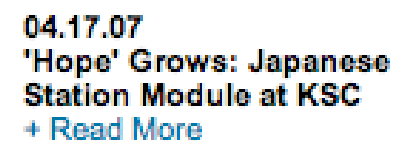
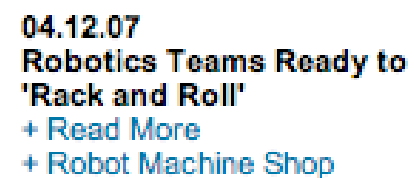
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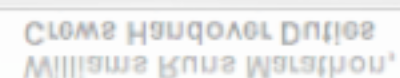
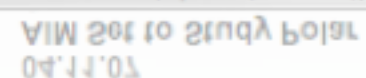
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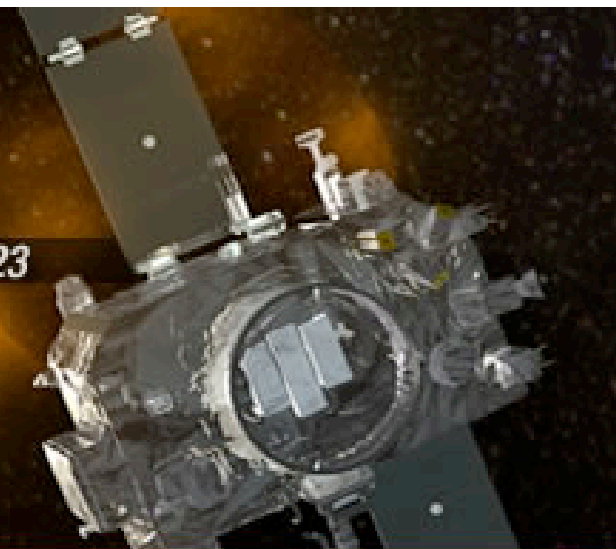
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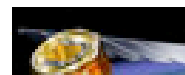
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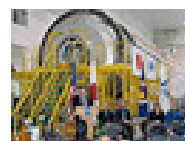
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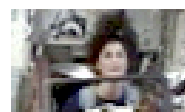
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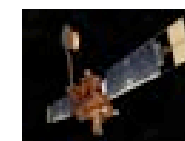
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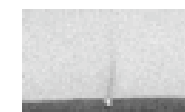
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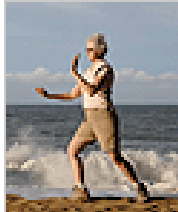
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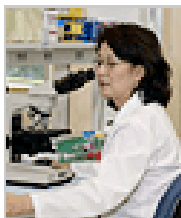
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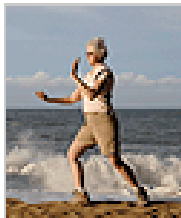
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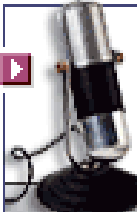

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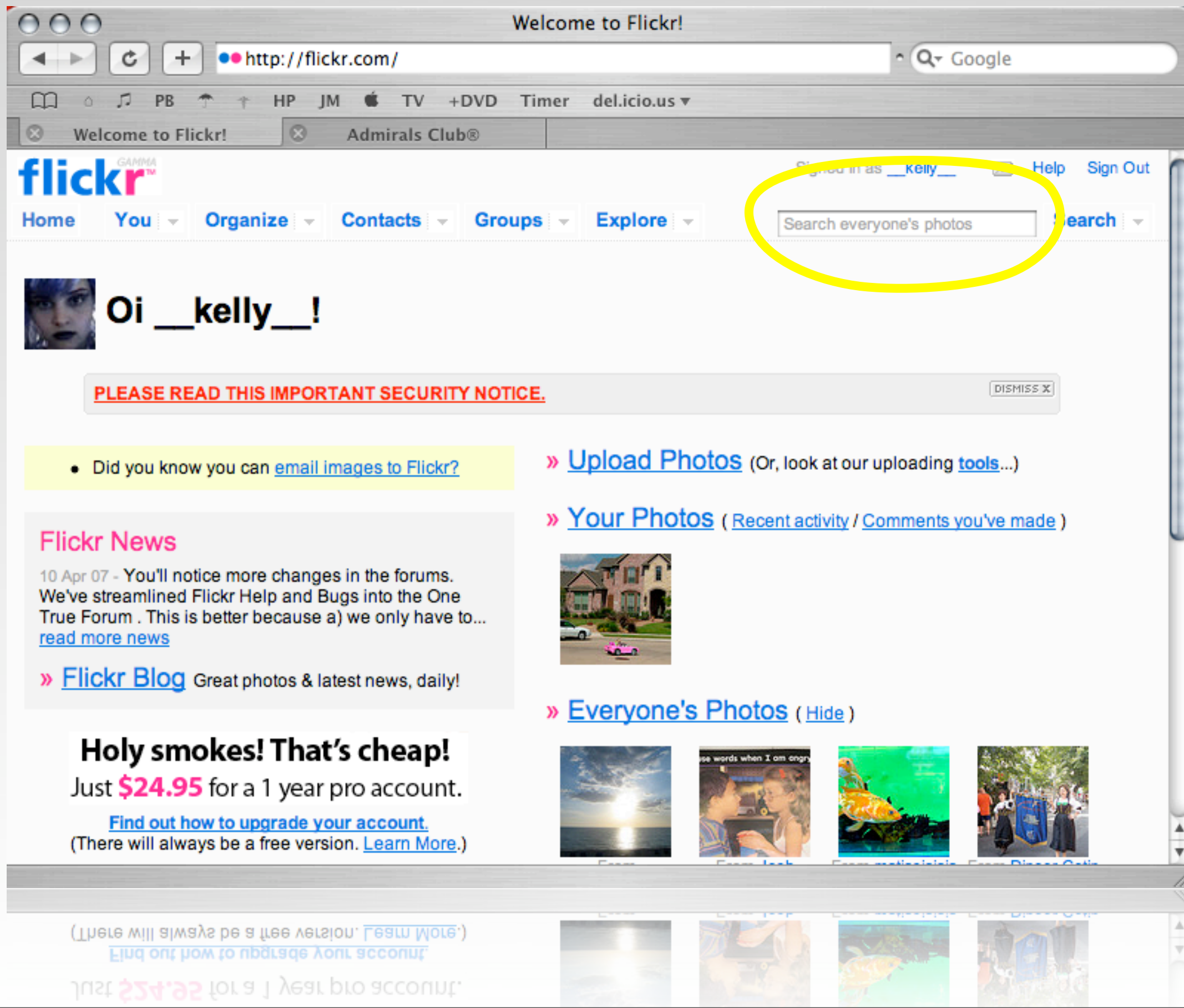














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Calendar

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Click below for the announcement of the NCI Early Detection Research Network (EDRN) Program for Rapid, Independent Diagnostic Evaluation (PRIDE) for Cancer Biomarkers  
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Publications

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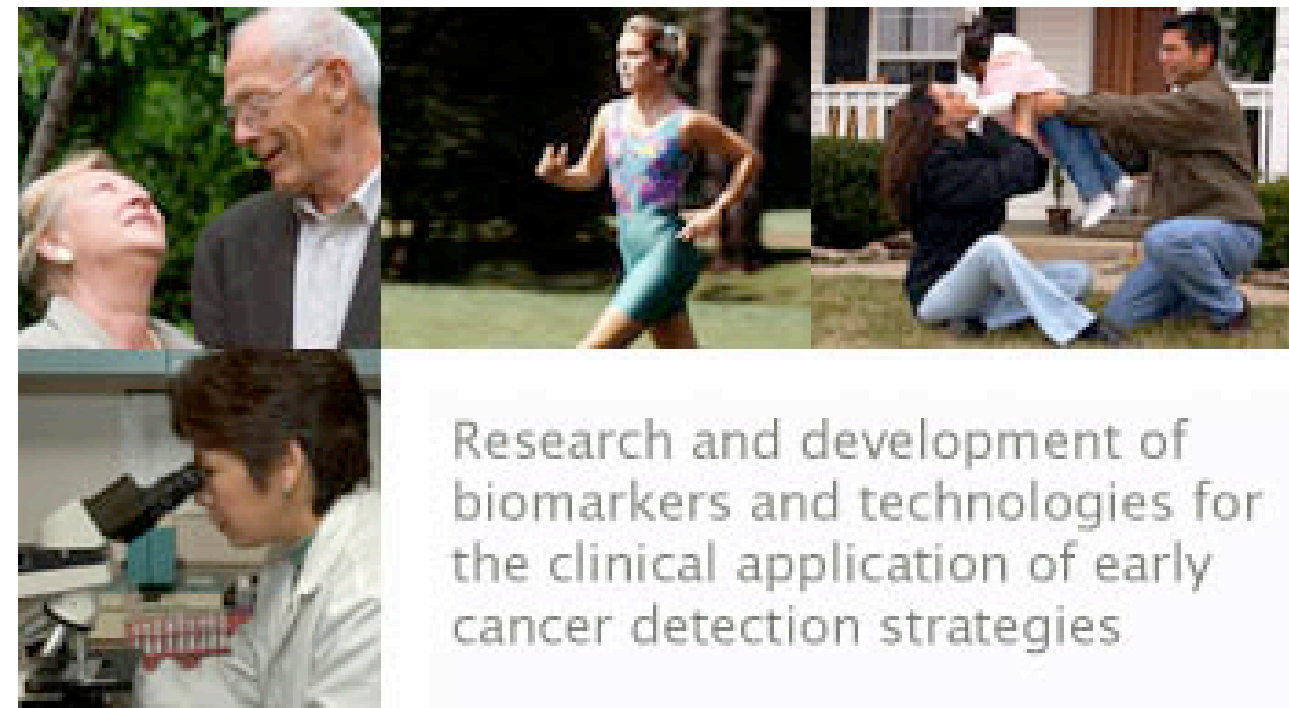




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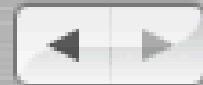
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## Committees

- [Steering Committee \(SC\)](#)
- [Executive Committee \(EC\)](#)
- [Network Consulting Team \(NCT\)](#)

## Subcommittees

- Subcommittees are the policy-making Working Groups of the EDRN and report to the SC when requested by the Chair. Subcommittees meet twice a year in conjunction with the SC business meetings. Conference calls are made any time on the recommendation of the Chair of either the SC or Subcommittees. Formal meetings between the semiannual meetings require approval by the Chair of the SC.

Voting members of the Subcommittees are the members of the SC, that is the Principal Investigators in the EDRN. Co-investigators, Associate Members, and other interested parties, however, are welcome to attend Subcommittee meetings as consultants. The Chair of the SC appoints members to the Subcommittees, although SC members can express their preferences on which Subcommittee they



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NCI hosted pages: Karl Krueger

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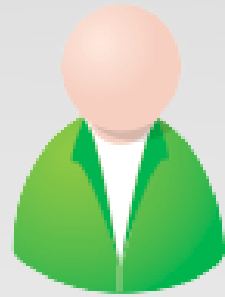
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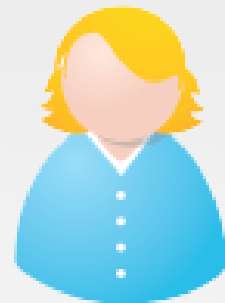


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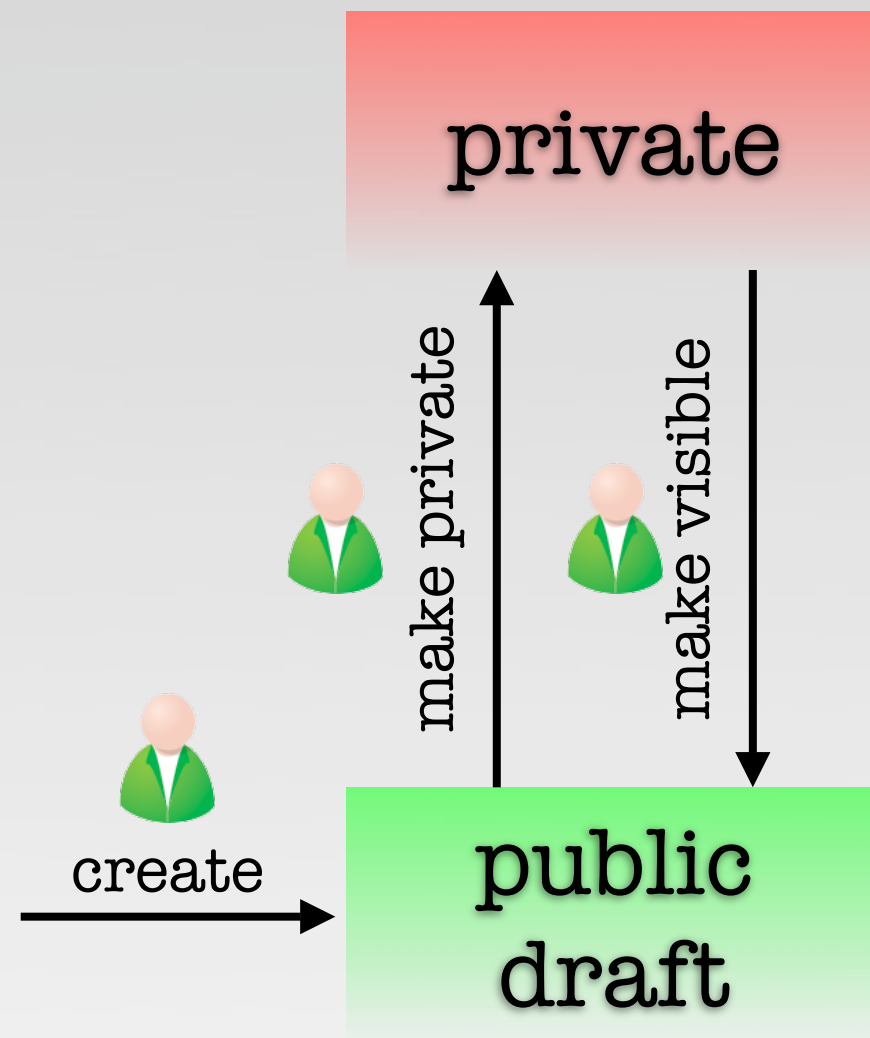


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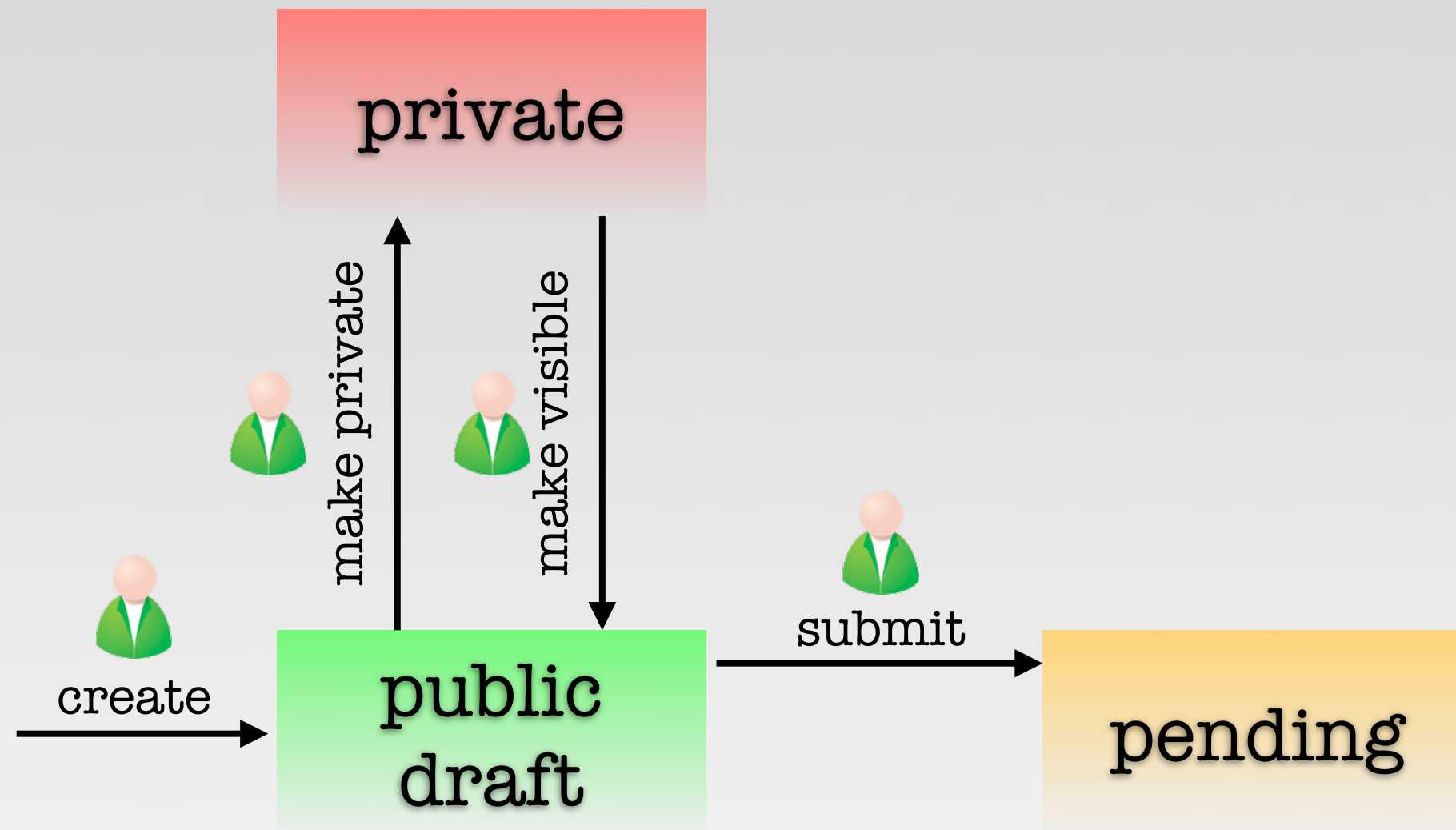


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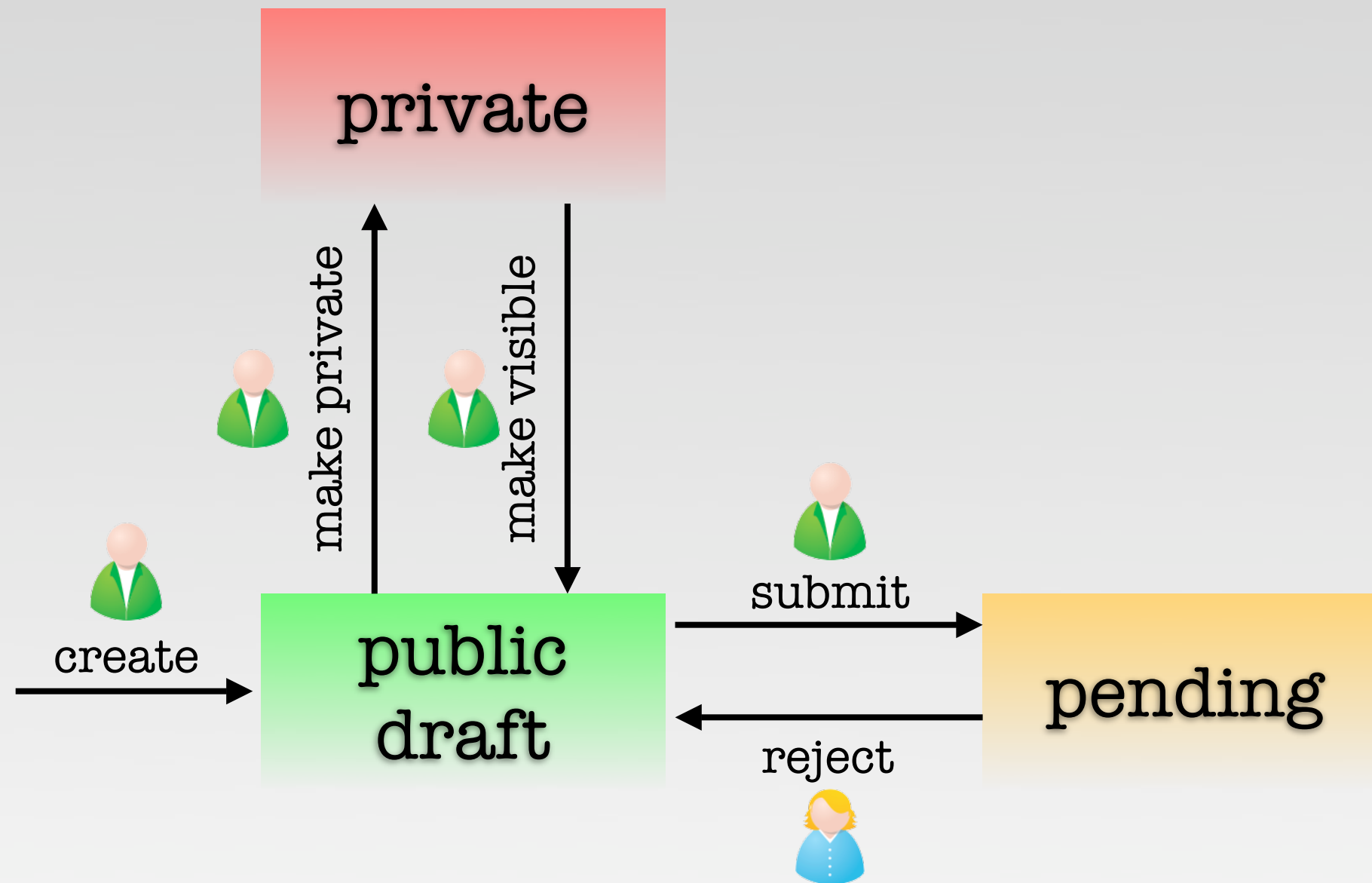




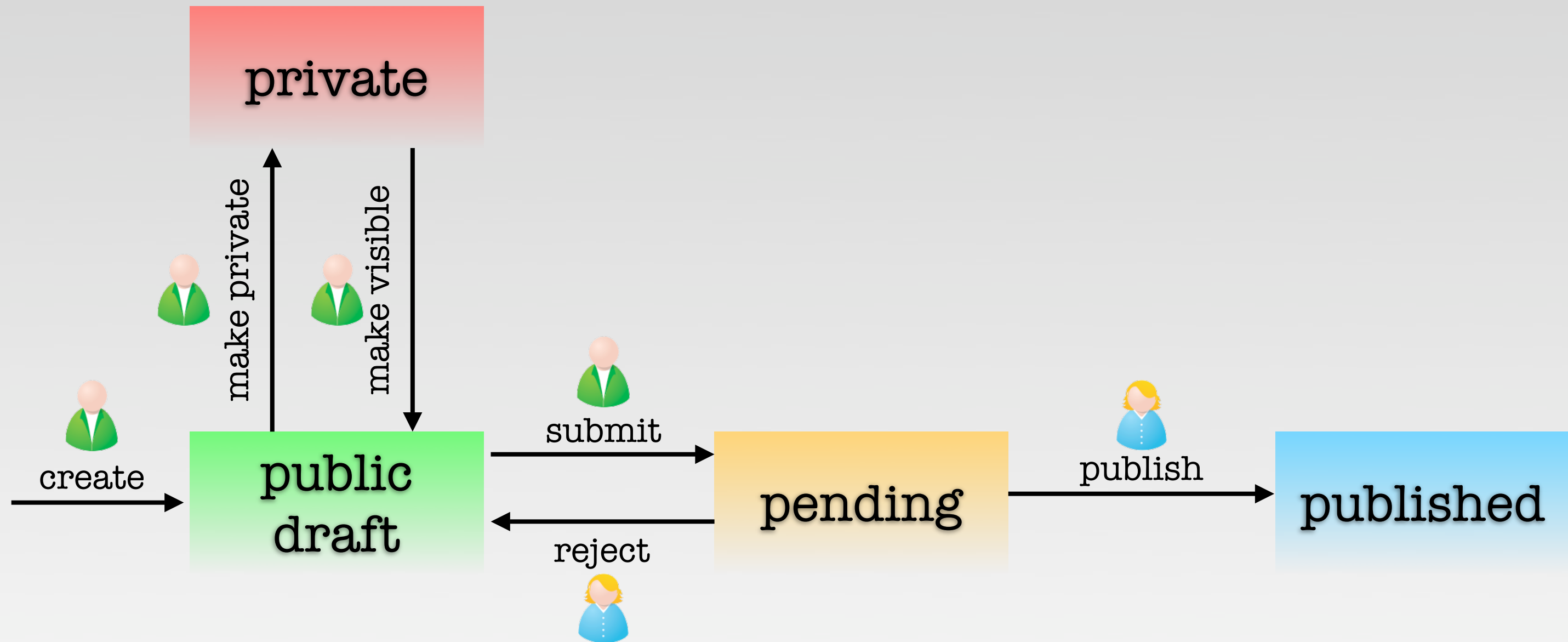




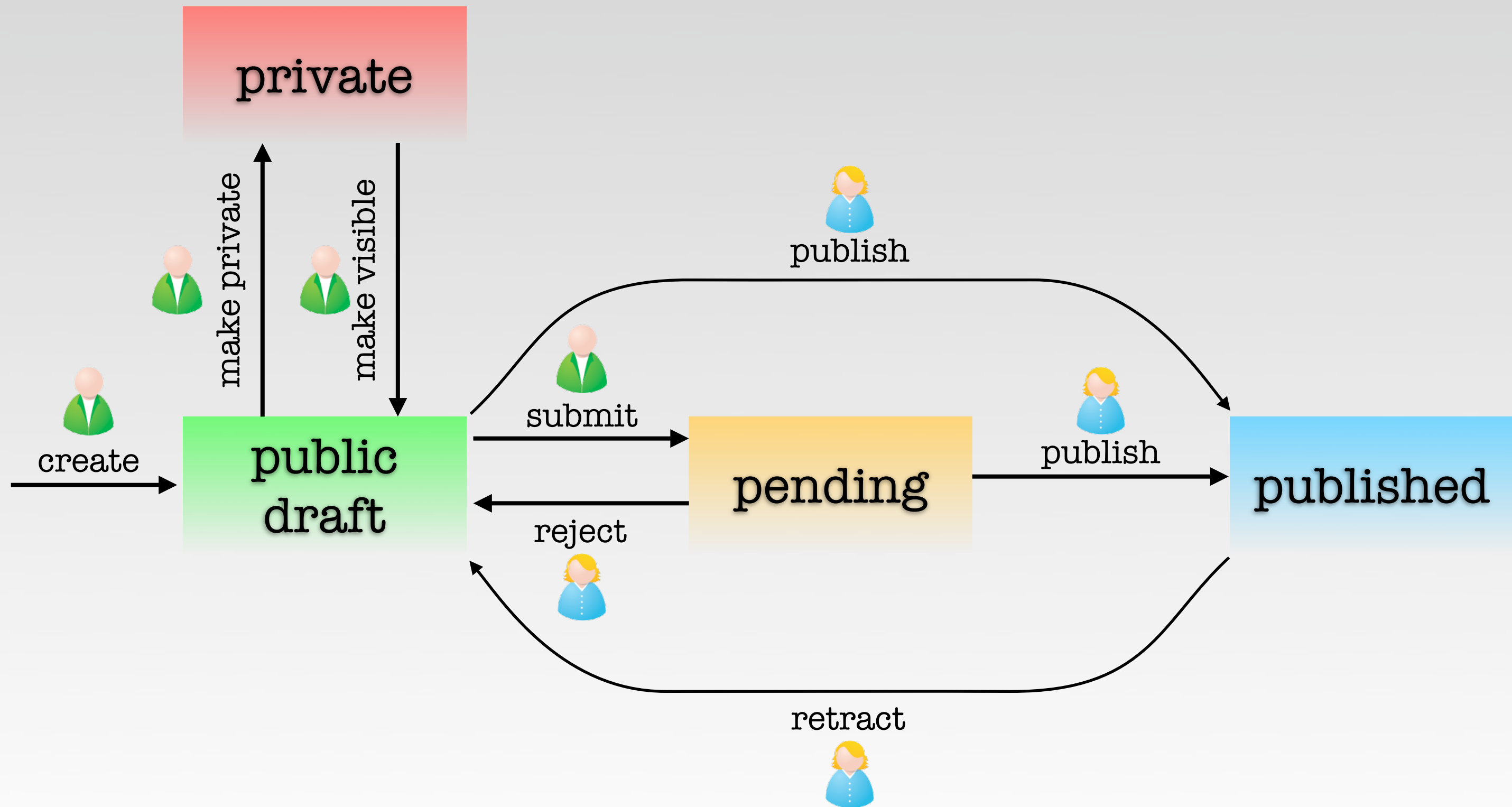














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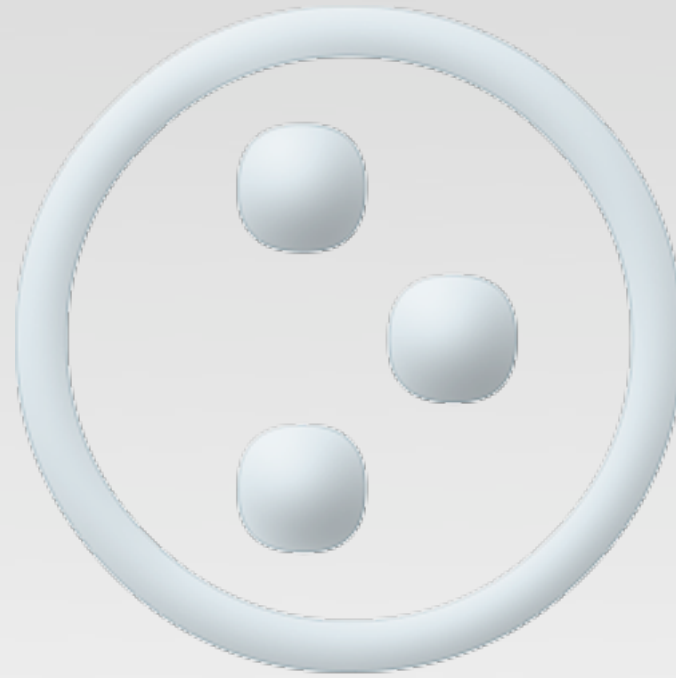


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What it is

How it works

Current issues

Future directions



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